

## SUMMARIES

Result	No.	Score	Query	Match	Length	ID	Description
1	1274	100.0	239	23	AAB17518	Enhanced F64L-E222	
2	1274	100.0	893	22	AAAG5781	Amino acid sequence	
3	1274	100.0	1132	22	AAAG5782	Amino acid sequence	
4	1266	99.4	239	23	AAE17517	Enhanced F64L jellyfish GFP mutant	
5	1263	99.1	239	21	AAE28582	Enhanced F64L jellyfish GFP mutant	
6	1263	99.1	239	21	AAE28583	Enhanced F64L jellyfish GFP mutant	
7	1263	99.1	239	21	AAE51349	Amino acid sequence	
8	1263	99.1	239	22	AAH31171	Amino acid sequence	
9	1263	99.1	239	22	AAH50804	Jellyfish GFP mutant	
10	1263	99.1	239	22	AAH85900	A. victoria green	

A. victoria green  
A. victoria victoria  
Jellyfish green fl  
Blomembrane green fl  
Blomembrane perma  
W110-type green fl  
Blomembrane perma  
Blomembrane perma  
Blomembrane perma  
Blomembrane perma  
Blomembrane perma  
EGFP-NQC42-461 fl  
EGFP-NQC42-461 fl  
EGFP-MOODC2-461 fl  
EGFP-DVDD-anneXin  
EGFP-DVDD-anneXin  
Caspa3e - blomemso  
EGFP/ORM fusion pr  
EGFP/ORM fusion pr  
GFP mutant BGFP II  
T. maritima H9/BGF  
EGFP/ORM fusion pr  
EGFP/ORM fusion pr  
EGFP/ORM fusion pr  
Alpha-actinin  
Alpha-actinin acti  
Human ARP/green fl  
EGFP/ORM fusion pr  
EGFP/ORM fusion pr  
EGFP/ORM fusion pr  
EGFP/ORM fusion pr  
Green fluorescent  
Green fluorescent  
GFP-HS927 fusion p  
CDK2-green fluores  
EGFP-ORF100 fusion  
A GFP-I-kappaB kin  
Anno acid sequenc  
Erk2-green fluores  
Amnio acid sequenc

## ALIGNMENTS

RESULT 1	
AAEL7518	
ID	AAEL7518 standard; Protein: 239 AA.
XX	
XX	AAEL7518;
XX	
DT	22-APR-2002 (first entry)
XX	
XX	Enhanced P6AL-E222G jellyfish green fluorescent protein mutant.
XX	
XX	Jellyfish; green fluorescent protein; GFP; protein redistribution;
KW	cellular function; genetic reporter; mutant; Stoke's shift; mutuin.
XX	
OS	Aequorea victoria.
OS	Synthetic.
XX	
Key	Location/Qualifiers
FT	Misc-difference 65
FT	note= "Wild type Phe substituted with Leu; This
FT	corresponds to position 64 in the wild type protein"
FT	
FT	Misc-difference 23
FT	/note= "Wild type Glu substituted with Gly; This
FT	corresponds to position 222 in the wild type protein"
XX	
PX	WO200198338-A2.
XX	
PD	27-DEC-2001.
XX	
PD	18-JUN-2001; 2001WC-EP06848..
XX	
PR	19-JUN-2000; 2000DK-0000953.
PR	20-JUN-2000; 2000US-212681P.
PR	10-MAY-2001; 2001DX-0000739.





CC diagnostic tool. The present sequence is enhanced F64L jellyfish green  
 CC fluorescent protein (GFP) mutant.

CC Sequence 239 AA;  
 CC  
 CC Query Match 99.4%; Score 1266; DB 23; Length 239;  
 CC Best Local Similarity 99.6%; Pred. No. 1.8e-122;  
 CC Matches 238; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 CC  
 CC QY 1 MWSKGEELFTGVVPLVLDGVNCHKFSVSGSDGATYGLKLFCTTGKLPVPMPT 60  
 CC DB 1 MWSKGEELFTGVVPLVLDGVNCHKFSVSGSDGATYGLKLFCTTGKLPVPMPT 60  
 CC  
 CC QY 61 LVTTLSYGVQCFSRYPDMKHQDFKSPAMPGCTVQERTIFFKDGNGYKTRAEVKEGDTL 120  
 CC DB 61 LVTTLSYGVQCFSRYPDMKHQDFKSPAMPGCTVQERTIFFKDGNGYKTRAEVKEGDTL 120  
 CC  
 CC QY 121 VNRLEAGIDPKEDGNILGHKLEYNNSHNYIMADKQNGIKVNFIRHNEDGSVQLA 180  
 CC DB 121 VNRLEAGIDPKEDGNILGHKLEYNNSHNYIMADKQNGIKVNFIRHNEDGSVQLA 180  
 CC  
 CC QY 181 DHYQONTPTGDPVLLPDNIHLYSTQSALSKDPNEKRDRHVLGFVTAAGITLGMDELTK 239  
 CC DB 181 DHYQONTPTGDPVLLPDNIHLYSTQSALSKDPNEKRDRHVLGFVTAAGITLGMDELTK 239

# RESULT 5

CC AAB22882  
 CC ID AAB22882 standard; Protein: 239 AA.

CC AX AAB22882;  
 CC XZ AAB22882;

CC DT 10-JAN-2001 (first entry)

CC DE Enhanced green fluorescent protein (EGFP), SEQ ID NO:46.

CC KW Biodefector protein; fusion protein; recognition site;  
 CC KW Cloning sequence; cellular localisation; fluorescent protein;  
 CC KW protease activity; cellular detection; cellular stress detection;  
 CC KW drug discovery; cell based screening.

CC OS Aequorea victoria.

CC SX Synthetic.

CC PN WO2000050872-A2.

CC XX 31-AUG-2000.

CC PD 25-FEB-2000; 2000WO-US0794.

CC XX 26-FEB-1999; 99US-0122152.

CC XX 08-MAR-1999; 99US-0352171.

CC PR 12-JUL-1999; 99US-0352171.

CC XX (CELL-) CELLONICS INC.

CC PA Giuliano KA, Kapur R;

CC PI WPI: 2000-594086/56.

CC DR N-PSDB; AA93373.

CC XX

CC FT Automated cell-based characterization of toxin by contacting cells

CC containing luminescent reporter molecules with test substance and

CC analyzing optically

CC PT

CC XX

CC XX

CC XX

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PD 11-MAY-2000.  
PF 29-OCT-1999; 99MO-US25431.  
XX  
XX 30-OCT-1998; 98US-0106308.  
PR 26-MAY-1999; 98US-0106078.  
XX  
XX (CELL-) CELOMICS INC.  
PA  
PI Guiliano KA, Bright G, Olson K, Burroughs-Tenaca S;  
XX WPI; 2000-365644/31.  
DR N-PSDB; AAA27573.  
XX  
XX Recombinant nucleic acid encoding a protease biosensor useful for  
PT fluorescence based cell and molecular biochemical assays for drug  
PT discovery comprising three operably linked nucleic acid sequences  
XX  
XX Claim 14; Fig 29A; 218pp; English.  
XX  
XX The present sequence is that of the egfp signal domain, which can  
CC be used to identify and/or purify recombinant protease biosensors (PBs) of the  
CC invention. The PBs (see AA795638-54) comprise: a first domain (see  
CC AA79579-87) comprising at least 1 detectable polypeptide signal  
CC such as the present sequence; a second domain (see AA79588-622)  
CC comprising at least 1 protease recognition site; and a third domain  
CC (see AA79623-37) comprising at least 1 reactant target sequence. A  
CC recombinant nucleic acid (see AA79623-37) encoding a host cell are also  
CC expression vectors. A method for identifying compounds that modify  
CC protease activity in a cell involves contacting a host cell that  
CC possesses the recombinant PB with a test compound, and determining  
CC the PB distribution in the host cell, where changes in the  
CC distribution of the PB are correlated with modification of protease  
CC activity by the test compound. Clarity in a host cell include the  
CC recombinant nucleic acid, or the recombinant PB, or the vector, or  
CC the host cell. The PB is useful in high content screens to detect  
CC in vivo activation of enzymatic activity, and to identify specific  
CC activity based on cleavage of a known recognition motif.  
XX  
XX Sequence 239 AA;  
SQ  
Query Match 99.1%; Score 1263; DB 21; Length 239;  
Best Local Similarity 99.2%; Pred. No. 3.6e-122;  
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MYSKGEELFTGVPVILVELDGVNGHKFSVSGEGEDATYKLTAKTCTGKLPVWPT 60  
DB 1 MYSKGEELFTGVPVILVELDGVNGHKFSVSGEGEDATYKLTAKTCTGKLPVWPT 60  
QY 61 LVTTLTGVCQFSRYPDHMKQHDFFKSMPEGYVOERTIFFKDDGNNKTRAEVFGDGL 120  
DB 61 LVTTLTGVCQFSRYPDHMKQHDFFKSMPEGYVOERTIFFKDDGNNKTRAEVFGDGL 120  
QY 121 VNRLEKIDGDFKEDGNILGHKLEYNNSHNYIMADKQNGIKVNFIRHNEDGSVOLA 180  
DB 121 VNRLEKIDGDFKEDGNILGHKLEYNNSHNYIMADKQNGIKVNFIRHNEDGSVOLA 180  
QY 181 DHYQONTPIGDGPVLLPDNHYLSTQALSNDPNEKRDHVLVLFVTAAGITLGMDELYK 239  
DB 181 DHYQONTPIGDGPVLLPDNHYLSTQALSNDPNEKRDHVLVLFVTAAGITLGMDELYK 239  
RESULT 7  
ID AA54349  
XX AA54349 standard; Protein: 239 AA.  
AC AA54349;  
XX  
XX 06-APR-2000 (first entry)  
DE Amino acid sequence of the mutant green fluorescent protein EGFP.

XX Fluorescent protein; green fluorescent protein; emission intensity;  
KW fluorescence; pH detection; pH sensor; EGFP.  
XX  
XX Synthetic.  
OS Acetate victoria.  
XX  
XX Key Location/Qualifiers  
FH Misc-difference 65 /note= "wild type Phe substituted with Leu"  
FT Misc-difference 66 /note= "wild type Ser substituted with Thr"  
FT Misc-difference 232 /note= "wild type His substituted with Leu"  
FT  
XX W09964592-A2.  
XX 16-DEC-1999.  
XX 08-JUN-1999; 99MO-US12850.  
XX 09-JUN-1998; 98US-0094359.  
XX 13-OCT-1998; 98US-0172063.  
XX (RECC ) UNIV CALIFORNIA  
XX (UNOR ) UNIV OREGON STATE.  
XX Talsen RV, Llopis J, Wachter RM;  
XX WPI; 2000-116540/10.  
XX N-PSDB; AA245642.  
XX  
XX New functional engineered green fluorescent proteins, used for  
XX measuring the pH in biological samples and cells  
XX  
XX Disclosure; Page 9; 89pp; English.  
XX  
XX The present sequence represents a functional engineered fluorescent  
XX protein based on the sequence of the green fluorescent protein (gfp). The  
XX protein has been modified as pH varies between 5 and 10 of the  
XX present protein are novel. The functional engineered fluorescent  
XX proteins show reversible changes in fluorescence over physiological  
XX pH ranges. They can be used for determining the pH of samples and  
XX cells. The polynucleotides can also be used to produce transgenic  
XX animals. The fluorescent protein biosensor is used for detecting the  
XX cells to a targeting signal. The targeting signal directs the  
XX expression of the protein sensors to restricted cell locations. This  
XX makes it possible to measure the pH of a precisely defined cellular  
XX region or organelle.  
XX  
XX Sequence 239 AA;  
SQ  
Query Match 99.1%; Score 1263; DB 21; Length 239;  
Best Local Similarity 99.2%; Pred. No. 3.6e-122;  
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MYSKGEELFTGVPVILVELDGVNGHKFSVSGEGEDATYKLTAKTCTGKLPVWPT 60  
DB 1 MYSKGEELFTGVPVILVELDGVNGHKFSVSGEGEDATYKLTAKTCTGKLPVWPT 60  
QY 61 LVTTLTGVCQFSRYPDHMKQHDFFKSMPEGYVOERTIFFKDDGNNKTRAEVFGDGL 120  
DB 61 LVTTLTGVCQFSRYPDHMKQHDFFKSMPEGYVOERTIFFKDDGNNKTRAEVFGDGL 120  
QY 121 VNRLEKIDGDFKEDGNILGHKLEYNNSHNYIMADKQNGIKVNFIRHNEDGSVOLA 180  
DB 121 VNRLEKIDGDFKEDGNILGHKLEYNNSHNYIMADKQNGIKVNFIRHNEDGSVOLA 180  
QY 181 DHYQONTPIGDGPVLLPDNHYLSTQALSNDPNEKRDHVLVLFVTAAGITLGMDELYK 239  
DB 181 DHYQONTPIGDGPVLLPDNHYLSTQALSNDPNEKRDHVLVLFVTAAGITLGMDELYK 239

RESULT 8  
AAB31171  
ID AAB31171 standard; Protein; 239 AA.  
AC AAB31171;  
XX  
XX 03-APR-2001 (first entry)  
XX  
XX Amino acid sequence of a green fluorescent protein (GFP).  
DE  
XX Growth rate; death rate; reporter gene; luminescent protein;  
KW fluorescent product; luciferase; green fluorescent protein; GFP.  
XX  
XX Aequorea victoria.  
XX  
XX WO2000075367-A1.  
XX  
XX 14-DEC-2000.  
XX  
XX 07-JUN-2000; 2000MO-FI00507.  
XX  
XX 07-JUN-1999; 99FI-0001296.  
XX  
XX (LILI)/ LILIUS E.  
PA (VIRT)/ VIRT M.  
PA  
XX Lilius E, Virta M;  
XX  
XX WPI; 2001-061737/07.  
DR N-PSDB; AAC86954.  
DR  
XX Assessing growth and death rates of a micro-organism in a desired  
XX environment; the method comprises introducing at least  
XX one reporter gene encoding luminescent and/or fluorescent products  
XX into the micro-organisms, incubating the micro-organism within the  
XX desired environment, and detecting luminescence and/or fluorescence  
XX after a predetermined time period; use of two different markers within  
XX the micro-organism allows for the determination of growth rate and  
XX death rates; the method is used to assess the growth rate and death  
XX rates of a micro-organism within a predetermined time period in a desired  
XX environment. The present sequence represents a green fluorescent  
XX protein (GFP), and is encoded by a plasmid which encodes luminescent  
XX and fluorescent proteins, and is used in the method of the invention.  
XX  
XX Sequence 239 AA:

Query Match 99.1%; Score 1263; DB 22; Length 239;  
Best Local Similarity 99.2%; Pred. No. 3.6e-122;  
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MYSKGEELFGVVPVLVELDQVNGHKFVSVSSEGDATYKGLTLKFTCTGKLPVPMPT 60  
DB 1 MYSKGEELFGVVPVLVELDQVNGHKFVSVSSEGDATYKGLTLKFTCTGKLPVPMPT 60  
QY 61 LVTTLSGVCFSYDPDHKQHDFFKSNAPGTVQERTIPFKDDGNYTTRAEVFPDPTL 120  
DB 61 LVTTLSGVCFSYDPDHKQHDFFKSNAPGTVQERTIPFKDDGNYTTRAEVFPDPTL 120  
QY 121 VNRLEKIDFKEDGNILGHKLEYNSHNYIMADKQNGIKYKFKIRHNTEDGSVOLA 180  
DB 121 VNRLEKIDFKEDGNILGHKLEYNSHNYIMADKQNGIKYKFKIRHNTEDGSVOLA 180  
QY 181 DRYQONTPTGDGCVLLPDNHYLSTOSALSKEPNKRDHNVLLGVTAAGITLGNDELK 239  
DB 181 DRYQONTPTGDGCVLLPDNHYLSTOSALSKEPNKRDHNVLLGVTAAGITLGNDELK 239

RESULT 9  
AAB50804  
ID AAB50804 standard; Protein; 239 AA.  
AC AAB50804;  
XX  
XX 14-MAR-2001 (first entry)  
XX  
XX Jellyfish GFP mutant EGFP.  
DE  
XX Aequorea victoria; jellyfish; fluorescent protein indicator;  
KW green fluorescent protein; GFP; linker moiety; sensor;  
XX calmodulin-binding domain; mutant; mutagen.  
XX  
XX Aequorea victoria.  
XX  
XX WO2000071565-A2.  
XX  
XX 30-NOV-2000.  
XX  
XX 17-MAY-2000; 2000MO-US13684.  
XX  
XX 21-MAY-1999; 99US-0316919.  
PR 21-MAY-1999; 99US-0316920.  
XX  
XX (REGC ) UNIV CALIFORNIA.  
XX  
XX Tsien RY, Baird GA;  
PI  
XX WPI; 2001-032017/04.  
DR N-PSDB; AAC90486.  
DR  
XX Novel fluorescent proteins comprising a sensor protein inserted into  
XX them, useful for measuring the response of a sensor biologically,  
XX chemical, electrical or physiological parameter in vivo or in vitro -  
XX  
XX Disclosure; Page 24; 94pp; English.  
XX  
XX The present sequence is a fluorescent protein used in the construction  
XX of a fluorescent protein indicator. The indicator comprises a sensor  
XX polypeptide that is responsive to a chemical, biological, electrical  
XX or physiological parameter, and a fluorescent protein functional group.  
XX The sensor polypeptide is operatively inserted into the fluorescent  
XX moiety of the fluorescent protein used for detecting the presence of  
XX the sensor polypeptide in a sample. The method includes inserting  
XX the sample with the indicator and detecting a change in fluorescence,  
XX which a change is indicative of the effect of the parameter on the sensor  
XX polypeptide. The novel fluorescent proteins are advantageous due to their  
XX reduced size as compared to the FRET (fluorescence resonance energy  
XX transfer) based sensors.  
XX  
XX Sequence 239 AA:

Query Match 99.1%; Score 1263; DB 22; Length 239;  
Best Local Similarity 99.2%; Pred. No. 3.6e-122;  
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MYSKGEELFGVVPVLVELDQVNGHKFVSVSSEGDATYKGLTLKFTCTGKLPVPMPT 60  
DB 1 MYSKGEELFGVVPVLVELDQVNGHKFVSVSSEGDATYKGLTLKFTCTGKLPVPMPT 60  
QY 61 LVTTLSGVCFSYDPDHKQHDFFKSNAPGTVQERTIPFKDDGNYTTRAEVFPDPTL 120  
DB 61 LVTTLSGVCFSYDPDHKQHDFFKSNAPGTVQERTIPFKDDGNYTTRAEVFPDPTL 120  
QY 121 VNRLEKIDFKEDGNILGHKLEYNSHNYIMADKQNGIKYKFKIRHNTEDGSVOLA 180  
DB 121 VNRLEKIDFKEDGNILGHKLEYNSHNYIMADKQNGIKYKFKIRHNTEDGSVOLA 180  
QY 181 DRYQONTPTGDGCVLLPDNHYLSTOSALSKEPNKRDHNVLLGVTAAGITLGNDELK 239  
DB 181 DRYQONTPTGDGCVLLPDNHYLSTOSALSKEPNKRDHNVLLGVTAAGITLGNDELK 239

Db 181 DHYQNTPTIGGCVLLPDDNYLSTQSALSOPNEKRDHWLLEFVTAAGTILGMDLYK 239

# RESULT 10

AAAB85900  
ID AAB85900 standard; Protein: 239 AA.  
XX  
AC AAB85900;  
XX  
DT 30-NOV-2001 (first entry)  
XX  
DE A. victoria green fluorescent protein (GFP) and linker sequence.  
XX  
KW Melanin concentrating hormone receptor; MCHR; MCH, chimeric; fusion;  
KW protein; chimeric; chimeric; anabolic; food intake; GFP;  
KW green fluorescent protein.  
XX  
OS Synthetic.  
XX  
OS Aequorea victoria.  
XX  
XX W0200168705-A1.  
XX  
XX 20-SEP-2001.  
XX  
XX 14-MAR-2001; 2001WO-US08071.  
XX  
XX 15-MAR-2000; 2000US-0189698.  
XX  
XX (MCH) MCH & CO INC.  
XX  
XX Marsh DJ;  
XX  
XX WPI; 2001-565791/63.  
XX  
XX N-PSDB; AAH47304.  
XX  
XX Fusion protein comprising melanin concentrating hormone receptor  
XX peptide and fluorescent protein, useful for identifying appetite  
XX stimulants.  
XX  
XX Claim 2; Page 14; 71pp; English.  
XX  
XX The invention provides melanin concentrating hormone (MCH) receptor  
XX (MCHR) and fusion proteins. The MCHR chimeric proteins comprise  
XX MCHR polypeptide regions from different species. The MCHR fusion protein  
XX comprise MCHR polypeptide region and a fluorescent polypeptide region  
XX joined directly, or via a linker, to the carboxy side of the MCHR  
XX polypeptide region. The MCHR fusion proteins can be expressed by standard  
XX recombinant methodology. MCHR fusion proteins promote feeding (orexigenic) and up  
XX regulation of MCH activity stimulates food intake. The present  
XX invention represents a A. victoria green fluorescent protein (GFP) and a linker  
XX sequence.  
XX  
XX Sequence 239 AA:

Query Match 99.1%; Score 1263; DB 22; Length 239;  
Best Local Similarity 99.2%; Pred. No. 3,6e-122;  
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPLVLELDGVDNGHKSFSVSGEGEDATYGLTLKLTCTTGKLPVPMPT 60  
Db 1 MVSKEELFTGVVPLVLELDGVDNGHKSFSVSGEGEDATYGLTLKLTCTTGKLPVPMPT 60  
QY 61 LVTLSTGVQCFSRYPDMMKHQDFPKSAMPETVQERTIFFKDDGNYKTRAEVFECDTL 120  
Db 61 LVTLSTGVQCFSRYPDMMKHQDFPKSAMPETVQERTIFFKDDGNYKTRAEVFECDTL 120  
QY 121 VNRIELKGIDFDEGNILGHKLEYNSHNHYIMADKQNGIKVFKIRHNIEDGSVOLA 180  
Db 121 VNRIELKGIDFDEGNILGHKLEYNSHNHYIMADKQNGIKVFKIRHNIEDGSVOLA 180  
QY 181 DHYQNTPTIGGCVLLPDDNYLSTQSALSOPNEKRDHWLLEFVTAAGTILGMDLYK 239  
Db 181 DHYQNTPTIGGCVLLPDDNYLSTQSALSOPNEKRDHWLLEFVTAAGTILGMDLYK 239

# RESULT 12

AAEL4599  
ID AAEL4599 standard; Protein: 239 AA.  
XX  
AC AAEL4599;  
XX  
DT 31-MAY-2002 (first entry)

# RESULT 11

AAAG66198  
ID AAAG66198 standard; Protein: 239 AA.  
XX  
AC AAAG66198;  
XX  
DT 17-JUN-2002 (first entry)  
XX  
DE A. victoria green fluorescent protein (EGFP).  
XX  
KW Cyan-green fluorescent protein; fluorescence; recombinant; GFP;  
KW green fluorescent protein; EGFP.  
XX  
OS Aequorea victoria.  
XX  
XX JP2002045189-A.  
XX  
XX 12-FEB-2002.  
XX  
XX 04-AUG-2000; 2000JP-0237165.  
XX  
XX 04-AUG-2000; 2000JP-0237165.  
XX  
XX (RIKA) RIKAGAKU KENKYUSHO.  
XX  
XX WPI; 2002-299190/34.  
XX  
XX N-PSDB; ABL40628.  
XX  
XX  
XX  
XX A gene encoding cyan-green fluorescent protein -  
XX  
XX Examples; Page 14; 20pp; Japanese.  
XX  
XX The invention relates to a gene encoding proteins having cyan-green  
XX fluorescence characteristic and having a function of showing stable  
XX fluorescence characteristic in acid region. A method for the preparation  
XX of a cyan-green fluorescent protein is provided which involves a  
XX transformant transformed by a recombinant vector comprising the gene,  
XX where the transformant is cultured and the protein is collected from the  
XX cultured cells. The protein produced by the gene represents the A. victoria green  
XX fluorescent protein (EGFP).  
XX  
XX Sequence 239 AA:

Query Match 99.1%; Score 1283; DB 23; Length 239;  
Best Local Similarity 99.2%; Pred. No. 3,6e-122;  
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPLVLELDGVDNGHKSFSVSGEGEDATYGLTLKLTCTTGKLPVPMPT 60  
Db 1 MVSKEELFTGVVPLVLELDGVDNGHKSFSVSGEGEDATYGLTLKLTCTTGKLPVPMPT 60  
QY 61 LVTLSTGVQCFSRYPDMMKHQDFPKSAMPETVQERTIFFKDDGNYKTRAEVFECDTL 120  
Db 61 LVTLSTGVQCFSRYPDMMKHQDFPKSAMPETVQERTIFFKDDGNYKTRAEVFECDTL 120  
QY 121 VNRIELKGIDFDEGNILGHKLEYNSHNHYIMADKQNGIKVFKIRHNIEDGSVOLA 180  
Db 121 VNRIELKGIDFDEGNILGHKLEYNSHNHYIMADKQNGIKVFKIRHNIEDGSVOLA 180  
QY 181 DHYQNTPTIGGCVLLPDDNYLSTQSALSOPNEKRDHWLLEFVTAAGTILGMDLYK 239  
Db 181 DHYQNTPTIGGCVLLPDDNYLSTQSALSOPNEKRDHWLLEFVTAAGTILGMDLYK 239





QY 61 LVTTLSYGVCFSRYPDHMKOHDFKSAPEGYVOERTIFFKDDGNYKTRAEVKEFGDTL 120  
 DB 61 LVTTLSYGVCFSRYPDHMKOHDFKSAPEGYVOERTIFFKDDGNYKTRAEVKEFGDTL 120  
 QY 121 VNRLEKAGIDFKEDGNTIGHKLEYNYSNHNVIYADQKNGIKVNFKIRNEDGVSOLA 180  
 DB 121 VNRLEKAGIDFKEDGNTIGHKLEYNYSNHNVIYADQKNGIKVNFKIRNEDGVSOLA 180  
 QY 181 DHIYQONTPIGDGPVLLPDNHYLSQSALSNDKPNKRDHNVLLGFVTAAGITLGMDELYK 239  
 DB 181 DHIYQONTPIGDGPVLLPDNHYLSQSALSNDKPNKRDHNVLLGFVTAAGITLGMDELYK 239  
 QY 181 DHIYQONTPIGDGPVLLPDNHYLSQSALSNDKPNKRDHNVLLGFVTAAGITLGMDELYK 239  
 DB 181 DHIYQONTPIGDGPVLLPDNHYLSQSALSNDKPNKRDHNVLLGFVTAAGITLGMDELYK 239  
 RESULT 14  
 ID ANU99804 standard; Protein; 259 AA.  
 AC ANU99804;  
 DT 07-OCT-2002 (first entry)  
 XX Biomembrane permeable compound associated EGFP-Histidine tag protein.  
 XX Biomembrane permeating signal sequence; nucleus-transfer signal;  
 KW postnapsin transfer signal sequence; biomembrane permeable compound;  
 KW PCR primer; ss; enhanced green fluorescent protein; EGFP; His tag;  
 KW histidine tag.  
 CC Synthetic.  
 XX JP2002153288-A.  
 XX 28-MAY-2002.  
 XX 24-NOV-2000; 2000JP-0358442.  
 XX 24-NOV-2000; 2000JP-0358442.  
 XX (MATSU) MATSUJI H.  
 XX (MATSU) MATSUJISHITA M.  
 XX WPI; 2002-552745/59.  
 XX Compound for introducing a substance to a specific site in a cell, a  
 PT PAK inhibitor, a transcription inhibitor, a vector  
 XX Example 1; Page 16; 25pp; Japanese.  
 XX The invention describes a compound containing a biomembrane permeating  
 CC signal sequence and a selectively introduced signal sequence to a  
 CC specific site in a cell and which can be localised in the specific site  
 CC in the cell. The biomembrane permeating signal sequence consists of  
 CC 9-13 arginine residues and the selectively introduced signal sequence  
 CC to a specific site in a cell is a nucleus-transfer or postsynapse  
 CC transfer signal sequence. The compound is used to introduce a peptide  
 CC acting as a signal sequence into a cell. This is the amino acid sequence of  
 CC enhanced green fluorescent protein (EGFP), protein fused to a  
 CC histidine tag used in the development of a biomembrane permeable  
 CC compound.  
 XX Sequence 259 AA;  
 XX  
 XX  
 Query Match 99.18; Score 1263; DB 23; Length 259;  
 Best Local Similarity 99.28; Pred. No. 4.1e-122;  
 Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MWSKGEELFGVPIVLVDGVDYNGHKSFSVSGEGDGYGKILFKEICTGKLPVPMPT 60  
 DB 1 MWSKGEELFGVPIVLVDGVDYNGHKSFSVSGEGDGYGKILFKEICTGKLPVPMPT 60  
 QY 61 LVTTLSYGVCFSRYPDHMKOHDFKSAPEGYVOERTIFFKDDGNYKTRAEVKEFGDTL 120

DB 61 LVTTLSYGVCFSRYPDHMKOHDFKSAPEGYVOERTIFFKDDGNYKTRAEVKEFGDTL 120  
 QY 121 VNRLEKAGIDFKEDGNTIGHKLEYNYSNHNVIYADQKNGIKVNFKIRNEDGVSOLA 180  
 DB 121 VNRLEKAGIDFKEDGNTIGHKLEYNYSNHNVIYADQKNGIKVNFKIRNEDGVSOLA 180  
 QY 181 DHIYQONTPIGDGPVLLPDNHYLSQSALSNDKPNKRDHNVLLGFVTAAGITLGMDELYK 239  
 DB 181 DHIYQONTPIGDGPVLLPDNHYLSQSALSNDKPNKRDHNVLLGFVTAAGITLGMDELYK 239  
 RESULT 15  
 ID ANU97451 standard; Protein; 265 AA.  
 AC ANU97451;  
 DT 19-MAY-1999 (first entry)  
 XX Wild-type green fluorescent protein (GFP).  
 XX Green fluorescent protein; GFP; fluorescent energy transfer;  
 KW G protein-coupled receptor; G protein; receptor.  
 KW Aequorea victoria.  
 OS  
 XX  
 XX W0985873-A2.  
 XX  
 PD 10-DEC-1998.  
 XX 04-JUN-1998; 98MO-FR01136.  
 XX 05-JUN-1997; 97FR-0006977.  
 PR  
 XX (CNRS ) CNRS CENT NAT RECH SCI.  
 XX Alix P, Galzi JL;  
 XX WPI; 1999-142415/12.  
 DR  
 XX N-PSDS; AXI16086.  
 XX  
 PT Detecting non-covalent interactions between target protein and  
 PT ligand - using green fluorescent protein as energy transfer label  
 PT for reactants, used to, e.g. identify potential therapeutics binding  
 PT to G protein-coupled receptors  
 XX Disclosure; Fig 1; 103pp; French.  
 XX The present sequence represents wild-type green fluorescent protein  
 CC (GFP). The specification describes the use of GFP, or its fluorescent  
 CC variants and derivatives, for detecting and quantifying non-covalent  
 CC interactions between a target protein, genetically labelled by GFP,  
 CC and a ligand labelled with a group that can absorb light. GFP, GFP  
 CC or GFP or is a fluorescent protein based on the basic amino acid  
 CC substance being excited by GFP and the group, with the fluorescent  
 CC the GFP excitation wavelength. The labelled reagents are especially  
 CC used to assess interaction between a G protein-coupled receptor and a  
 CC G protein, particularly to identify agents interacting reversibly at  
 CC the receptor, i.e. potential therapeutic agonists and antagonists.  
 XX Sequence 265 AA;  
 XX  
 Query Match 99.18; Score 1263; DB 20; Length 265;  
 Best Local Similarity 99.28; Pred. No. 4.2e-122;  
 Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MWSKGEELFGVPIVLVDGVDYNGHKSFSVSGEGDGYGKILFKEICTGKLPVPMPT 60  
 DB 1 MWSKGEELFGVPIVLVDGVDYNGHKSFSVSGEGDGYGKILFKEICTGKLPVPMPT 60  
 QY 61 LVTTLSYGVCFSRYPDHMKOHDFKSAPEGYVOERTIFFKDDGNYKTRAEVKEFGDTL 120

Db 61 LVTTLTTCVOCEFSRYPDHMQHDPFKSAMPBCTVQERTIFPKDDGNWKTAEVAFSDTL 120  
QY 121 VNRIELKGIDFKEDGNILGHKLEYNYSNHYIIMADKXNGIKYNEKIRHNIEDGVSOLA 180  
Db 121 VNRIELKGIDFKEDGNILGHKLEYNYSNHYIIMADKXNGIKYNEKIRHNIEDGVSOLA 180  
QY 181 DRYQONTPIODGPVLLPDNHYLSTQSALSCKDPWKRDRHWYLGFTYTAACITLGMDELXK 239  
Db 181 DRYQONTPIODGPVLLPDNHYLSTQSALSCKDPWKRDRHWYLGFTYTAACITLGMDELXK 239

Search completed: June 3, 2003, 15:06:36  
Job time : 71 secs